

# Material Safety Data Sheet

WHMIS	Protective Clothing	TDG Road/Rail
		

## Section I - Product Identification and Uses

Common/Trade Name	<b>AMMONIUM SULPHATE</b>	MSDS # <b>9943</b>
Synonyms	Ammonium sulphate salt	
Chemical Name	Not applicable	
Chemical Formula	Not applicable	
Chemical Family	Not available	
Supplier	ARCELORMITTAL DOFASCO INC. P.O. BOX 2460 HAMILTON, ON. CANADA L8N 3J5 (905) 548-7200 EXT. 4051 (By-Product Sales)	
Material Uses	Internally generated by-product material.	

## Section IA - First Aid Measures

<b>Eye Contact</b>	Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention if irritation persists.
<b>Skin Contact</b>	Wash with soap and water to remove from skin. Seek medical attention if irritation persists. Launder contaminated clothing before re-use.
<b>Inhalation</b>	Remove person to fresh air. Seek medical attention if symptoms persist.
<b>Ingestion</b>	DO NOT induce vomiting. Seek immediate medical attention. Never give anything by mouth to an unconscious person.

**Section II - Composition and Information on Ingredients**

Name	CAS#	% by Weight	TLV/PEL	LC <sub>50</sub> /LD <sub>50</sub>
1. AMMONIUM SULPHATE	7783-20-2	100	Not applicable.	ORAL (LD50): Acute: 2840 mg/kg [Rat]. 640 mg/kg [Mouse].

**Section III - Toxicological Properties**


Routes of entry	Skin contact. Eye contact. Inhalation. Ingestion.
TLV	Permissible exposure limits have not been established for this product.
Toxicity for animals	Acute oral toxicity (LD50): 30000 mg/kg [Rat]. (AMMONIUM SULPHATE)
Chronic effects on humans	<b>CARINOGENIC EFFECTS:</b> None known. <b>MUTAGENIC EFFECTS:</b> None known. <b>TERATOGENIC EFFECTS:</b> None known. <b>DEVELOPMENTAL TOXICITY:</b> None known.  No known chronic effects.
Acute effects on humans	Inhalation will cause upper respiratory irritation. Moderate irritation of skin or eyes. If swallowed, especially in large quantities, may cause upset stomach and pains, nausea and vomiting.



<b>Section IV - Physical Data</b>			
<b>Physical State and Appearance</b>	Fine white granules	<b>Vapor Pressure</b>	Not available.
<b>pH</b>	5.5 [Acidic]	<b>Evaporation Rate</b>	Not available.
<b>Odor Threshold</b>	Not available.	<b>Viscosity</b>	Not available.
<b>Volatility</b>	Not available.	<b>Water/Oil Dist. Coeff.</b>	Not available.
<b>Melting/Sublimation Point</b>	513°C (955.4°F)	<b>Critical temperature</b>	Not available.
<b>Boiling/Condensation Point</b>	Not available.	<b>Instability temperature</b>	Not available.
<b>Specific Gravity</b>	1.77	<b>Conditions of instability</b>	No additional remark.
<b>Vapor Density</b>	Not available.	<b>Solubility</b>	Not available
<b>Dispersion Properties</b>	Not available	<b>Odor</b>	Slight odour of ammonia.
		<b>Color</b>	White and yellow.

<b>Section V – Fire and Explosion Data</b>	
<b>The product is</b>	Does not burn and will not support combustion
<b>Auto-ignition temperature</b>	Not applicable
<b>Fire degradation products</b>	Ammonia, oxides of sulphur, oxides of nitrogen, oxides of carbon.
<b>Flash Points</b>	Not applicable
<b>Flammable Limits</b>	Not applicable
<b>Fire Extinguishing Procedures</b>	Use extinguishing media suitable for surrounding materials. Use SCBA during fire fighting.
<b>Flammability</b>	Not applicable
<b>Risks of explosion</b>	<p>Risks of explosion of the product in presence of mechanical impact: No</p> <p>Risks of explosion of the product in presence of static discharge: No</p> <p>If accidentally mixed with oxidizers (i.e. potassium chlorate, potassium nitrate or potassium nitrite), there is an explosion hazard during a fire.</p>

<b>Section VI – Reactivity Data</b>	
<b>Stability</b>	The product is stable.
<b>Hazardous Decomp. Products</b>	Ammonia, oxides of sulphur, oxides of nitrogen, oxides of carbon.
<b>Degradability</b>	Not available
<b>Products of Degradation</b>	Not available
<b>Corrosivity</b>	No specific information is available in our database regarding the corrosivity of this product in presence of various materials.
<b>Reactivity</b>	Incompatible with strong oxidizers. Will decompose at elevated temperatures.

<b>Section VII – Preventive Measures</b>	
<b>Waste Information</b>	Dispose of in accordance with local, provincial and federal regulations.
<b>Storage</b>	Keep in a cool and well-ventilated area. Protect stored material from getting wet. Store away from incompatibles.
<b>Precaution</b>	Avoid contact with skin and eyes. Avoid inhalation of dust. Avoid dust generation during handling. Do not shake, dry sweep or blow dust. Launder contaminated clothing before re-use.
<b>Small spill and leak</b>	Shovel into clean, dry containers. Clean area thoroughly. Do not get water inside containers. Use appropriate personal protective equipment during clean-up.
<b>Large spill and leak</b>	Refer to procedures in small spill and leak.

<b>Section VIII – Protective Measures</b>		
<b>Protective Clothing</b>	Safety glasses. Cotton or leather faced gloves. Use NIOSH/MSHA approved respirator if dust is generated during handling.	
<b>Engineering Controls</b>	Use general ventilation under normal conditions. Use mechanical ventilation if dust or fume is generated. Water should be available to flush skin and eyes.	

<b>Section IX – Classification</b>		
<b>TDG Road/Rail</b>	Not controlled under TDG (Canada).	
<b>Maritime Transportation</b>	Not available	
<b>WHMIS</b>	WHMIS CLASS D-2B: Material causing other toxic effects (TOXIC)	
<b>Federal and Provincial Regulations</b>	CEPA DSL: AMMONIUM SULPHATE	

<b>Section X – Other Information</b>	
<b>References</b>	Dofasco's Material Safety Data Sheet
The information on the MSDS is verified based on the supplier MSDS. Dofasco Business Units may use the material differently depending on their manufacturing processes. If the use of this material is other than that specified by the supplier, additional precautions may be required. Concerned employees should contact their Business Unit Health and Safety Co-ordinator for more information and advice.	
<b>Effective Date: September 22, 2008</b>	
<b>EMERGENCY CONTACT: 1-760-476-3962</b>	
<b>3E COMPANY CODE: 333211</b>	
<i>To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.</i>	